

NCEA
1998

$$v = 4.0 \text{ ms}^{-1}$$

$$\lambda = 5.0 \text{ m}$$

$$T = ? \times 10^{-3}$$

$$v = \frac{\lambda}{T}$$

$$\therefore T = \frac{\lambda}{v} = \frac{5}{4} = 1.25 \text{ seconds}$$

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1996

$$f = \frac{8}{20} = 0.4 \text{ Hz}$$

$$v = 2.8 \text{ ms}^{-1}$$

$$v = f\lambda$$

$$\therefore \lambda = \frac{v}{f} = \frac{2.8}{0.4} = 7 \text{ m}$$

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1995

$$\lambda = 1.3 \text{ m}$$

$$v = 2.0 \text{ ms}^{-1}$$

$$v = f\lambda$$

$$\therefore f = \frac{v}{\lambda} = \frac{2}{1.3} = 1.54 \text{ Hz (2d.p.)}$$

$$T = \frac{56.7}{12} = 4.725 \text{ s}$$

$$\lambda = \frac{48}{12} = 4 \text{ m}$$

$$v = \frac{\lambda}{T} = \frac{4}{4.725} = 0.85 \text{ ms}^{-1} \text{ (2d.p.)}$$